

## The Meaning Of Logarithms

Date \_\_\_\_\_ Period \_\_\_\_\_

**Rewrite each equation in exponential form.**

1)  $\log_6 36 = 2$

2)  $\log_{289} 17 = \frac{1}{2}$

3)  $\log_{14} \frac{1}{196} = -2$

4)  $\log_3 81 = 4$

**Rewrite each equation in logarithmic form.**

5)  $64^{\frac{1}{2}} = 8$

6)  $12^2 = 144$

7)  $9^{-2} = \frac{1}{81}$

8)  $\left(\frac{1}{12}\right)^2 = \frac{1}{144}$

**Rewrite each equation in exponential form.**

9)  $\log_u \frac{15}{16} = v$

10)  $\log_v u = 4$

11)  $\log_{\frac{7}{4}} x = y$

12)  $\log_2 v = u$

13)  $\log_u v = -16$

14)  $\log_y x = -8$

**Rewrite each equation in logarithmic form.**

15)  $u^{-14} = v$

16)  $8^b = a$